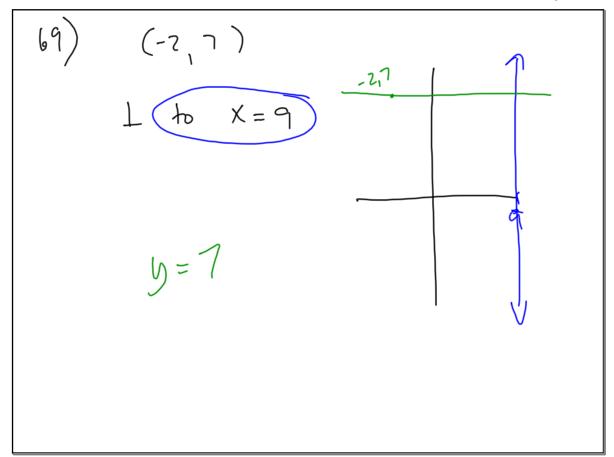
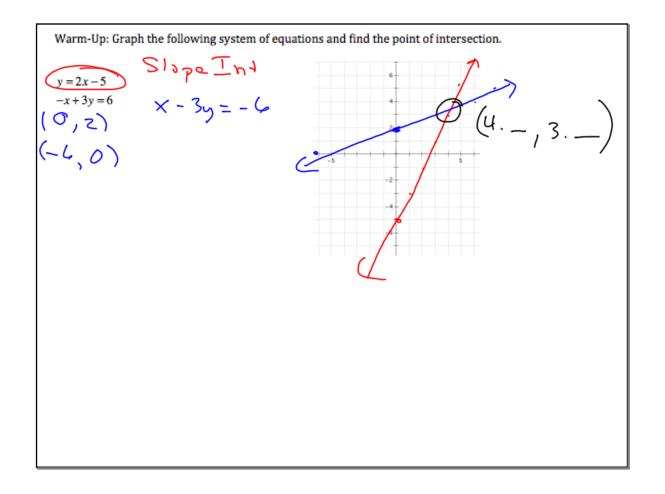
Linear systems





## Linear systems

Ex #1: Solve the system of equations from the warm-up using Substitution.  

$$\frac{y=2x-5}{-x+3y=6}$$
() I solet a invict in  $y=2x-5$ 
(c) Substitute in the other equation  $y \le 1x_5 + 5y_1 = -4x_5 = 6y_1 + 5y_1 = -4x_5 = 6y_1 + 5y_1 = -4y_2 + 5y_1 = -5y_1 + 5y_2 = -5y_2 =$ 

Ex #2: Solve the following system of equations using Substitution.  

$$4x + 39 = 5$$

$$2x - 3y = 13$$
(1) Isolate Variable
$$y = 5 - 4x$$
(2) Subst in to  $2^{rd}$  equates
$$(2 - 3)$$

$$2x - 3(5 - 4x) = 13$$

$$2x - 15 + 12x = 13$$

$$(4x = 23)$$

$$x = 2$$
(3)  $y = 5 - 4(2) = 5 - 3 = 3$ 

$\frac{50 \ln h \times}{12 \times +3y = 15}$ $\frac{2 \times -3y = 13}{2 \times -3y = 13}$	Ex #3: Solve the following system of equations using Elimination $   \begin{pmatrix}     4x + y = 5 \\     2x - 3y = 13   \end{pmatrix}   -2   \qquad                               $
14 x = 28 x = 2	7y = 21 Y = -3

